Model No.: **VH0101**

Operating Instructions

Thanks for purchasing our product.
Please be sure to read this instruction manual
carefully before using our product.

Introduction

VH0101 is a VGA video converter. It converts VGA input into HDMI to allow PC users to show their image not only on the PC's monitor, but could also be on TV, to have a large display. The conversion is along with the R/L audio.

VH0101 offers solutions for digital entertainment center, HDTV retail and show site, HDTV, STB, DVD and Projector factory, noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

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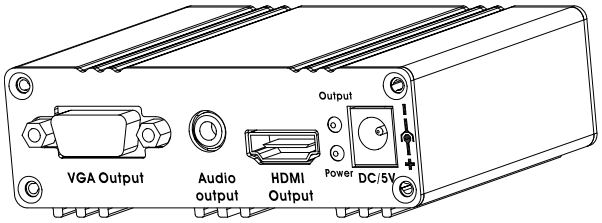
HDMI Converter

■ Product Overview (Model Number: VH0101)



Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

■ Features

- Easy to Use: Install in seconds, no need of setting.
- Conversion: It could convert PC's VGA video and R/L audio into complete HDMI.
- Extra VGA and R/L audio outputs: the outputs could be connected back to PC's monitor and speakers.
- Manual adjusting button: used for position the image precisely under some extreme condition.
- HDCP compliant.

✍ Notice

We reserve the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

⚠ Warning

To reduce the risk of fire, electric shock or product damage:

1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

6. Clean this apparatus only with dry cloth.

2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.

7. Unplug this apparatus during lightning storms or when unused for long periods of time.

3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.

8. Protect the power cord from being walked on or pinched particularly at plugs.

4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Only use attachments / accessories specified by the manufacturer.

5. Do not place sources of naked flames, such as lighted candles, on the unit.

10. Refer all servicing to qualified service personnel.

■ Package Contents

① Main unit. P/N_VH0101.

② 5V DC power adapter.P/N_VDC0502.

③ Operating Instructions. P/N_INSVH0101.

🕮 **NOTE:** HDMI cables are optional.

■ Connections and Operations

1) Connect the VGA video and R/L audio from computer to VH0101. (☞Input cables are optional)

2) Connect the HDMI output from VH0101 to the TV which has HDMI input.

3) Connect the VGA and R/L audio output of VH0101 back to the computer's monitor and speaker if necessary.

4) Insert the DC side of 5v power supply into VH0101 and then connect the AC side of the power supply into the wall outlet.

5) Power on the computer and TV, choose the input of TV to it's HDMI channel.

6) The image does not need to be adjusted, the VH0101 will position it automatically, the user may adjust the horizontal position under some extreme condition.

■ Main Features Overview

1. **Analog Video Input Front End Interface**

- Triple ADC with 12 - 140 MHz Sampling Rate
- Integrated line locked PLL generates pixel clock from HSYNC
- Integrated 5-bit pixel clock phase adjustment for precise sample timing control
- Integrated clamp with timing generator

- Integrated Brightness & Contrast controls
- Integrated precision voltage reference
- Compatible with VGA through SXGA RGB graphics signals
- Mid-Scale Clamping
- Fully Sync Processing
- Black and mid-level precision clamp and calibration*
- Input video mode status detection

2. Digital Video Input Front End Interface

- IRGB 444 ……8/10/12 bits/channel .....…1/ 3 channel
- Multi-format digital input up to 200M Pixel/sec
- Video data input pins re-order function
- Input video mode status detection
- Inverse Gamma Correcting (De-Gamma)
- Programmable Data Enable (DE) generator
- Programmable Vertical Sync (VS) generator
- Programmable Horizontal Sync (HS) generator

3. Digital Data Link Engine

- HDMI 1.1/1.0
- HDCP 1.1/1.0
- DVI 1.0
- Supports video optional formats: EIA/CEA-861-B

4. Analog TMDS Interface

- TMDS data link up to 2.0G-bit/s each channel
- Including 3 data channel and 1 clock channel
- Hot Plug detection
- TMDS Clock Channel Plug detection

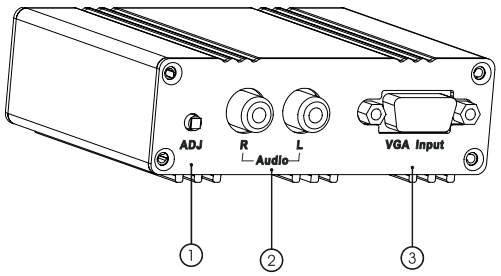
■ Specifications

Operating Temperature Range	-5 to +35°C (-41 to +95 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Supported Video Format	640*480/60HZ, 800*600/60HZ, 1024*768/60HZ, 1280*768/60HZ, 1280*960/60HZ, 1280*1024/60HZ, 1600*1200/60HZ
Power Supply	5V DC
Power Consumption	10wtts (Max.)
Dimensions	89mmWx29mmHx 68mmD/ 3.5''W×1.2''H×2.7''D
Mass (Main Unit)	0.68 kg

📖 **NOTE:** Specifications are subject to change without notice. Mass and dimensions are approximate.

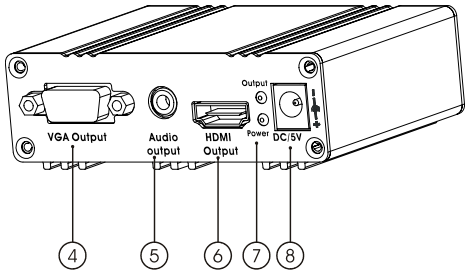
■ Panel Descriptions

Input Panel



① YPbPr video input.
② SPDIF audio input.

Output Panel



① VGA video output.
② R/L audio output.
③ HDMI output.
④ Status LED.
⑤ DC power input.

■ Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzine to clean this unit.

■ Product Service

● Provided Service

1) **Damage Requiring service:** The unit should be serviced by qualified service personnel if:
   - The DC power supply cord or AC adaptor has been damaged;
   - Objects or liquids have gotten into the unit;
   - The unit has been exposed to rain;
   - The unit does not operate normally or exhibits a marked change in performance;

- The unit has been dropped or the cabinet damaged.

2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

3) **Replacement parts:** When parts need replacing ensure the service uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.

4) **Safety check:** After repairs or service, ask the service to perform safety checks to confirm that the unit is in proper working condition.

● Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a daytime phone and/or email address where you can be reached.

If repair is needed during the limited warranty period the purchaser will be required to furnish a sales receipt/proof of purchase indicating date of purchase, amount paid and place of purchase. Customer will be charged for the repair of any unit received without such proof of purchase.

● Warranty

If your product does not work properly because of a defect in materials or workmanship, we (referred to as “the warrantor”) will, for the length of the period indicated as below, （**Parts (1) Year， Labor(90) Days**）which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” Limited Warranty period there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must

mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

● Warranty Limits And Exclusions

1) **This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage.** The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service Center or other Authorized Service, or damage that is attributable to acts of God.

2) **There are no express warranties except as listed under "limited warranty coverage". The warrantor is not liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service location, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

3) **Parts and service, which are not covered by this limited warranty, are your responsibility.**